

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** March 23, 2005

**Inspector:** Don Ukers

**Location:** Norwalk Substation Expansion

**Storm/**

**Rain Event:** The area received approx. 0.31 inches of precipitation, on the day of inspection and no other precipitation since the previous inspection, as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	<ul style="list-style-type: none"> <li>- The inlet continues to show signs of receiving more on site and off site sediment although the silt fence remains stable. A haybale placed here may help filter run-off. 3/9-3/23/05</li> <li>- Some silt from the minor erosion had been noticeable within the earthen swale and the area will require revegetation in the growing season. A haybale check dam may help prevent sedimentation until vegetation is established. 3/9-3/23/05</li> <li>- Emergency DOT work will begin on the New Canaan Ave bridge (Route 123) adjacent to the site. 3/23/05</li> </ul>	<ul style="list-style-type: none"> <li>-A new haybale could be installed here to help filter future sediment loads. 3/9-3/23/05.</li> <li>Continue to monitor inlet and surrounding area and maintain these controls as necessary to prevent sedimentation and stormwater issues. 3/9-3/23/05</li> <li>- The earthen swale and surrounding area is still bare soil and may require additional stabilization in the future. A haybale checkdam could be installed to help alleviate sedimentation during thaw periods. 3/9-3/23/05</li> <li>- Work is not associated with the project but is mentioned as a potential source of off-site sediment. Any areas disturbed on site will be restored per DOT. 3/23/05</li> </ul>
Foundation construction	<ul style="list-style-type: none"> <li>-The siding and structure of the GIS building continues to be under construction. 3/18-3/23/05</li> <li>-Some excavation and backfill continue near retaining wall #3 and the control house with new structure work occurring on the footings. 3/23/05</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time. 3/23/05</li> <li>- Soil stockpiles are well within the yard and areas are contained, no issues at this time. 3/23/05</li> </ul>

Areas of Inspection	Observation	Recommended Action
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- The silt fence remains at the ends of the overflow channel where vegetative has not fully established. 12/16-3/23/05	- Continue to be proactive in silt fence repair and maintenance where needed.
	-The overflow channel continues to work well with some minor erosion along the slope. 3/23/05.	- Continue to monitor for overall stabilization. In the spring, the situation should be evaluated as additional seeding may be necessary. 3/23/05
	- The flared inlet near the Rt 7 ramp is receiving obvious stormwater flows from off site roadway and on site sources, and sedimentation is apparent here even with the existing controls. A haybale should be placed as an additional precaution. This will worsen with thaw periods. 3/9-3/23/05	- Continue to monitor until stabilized as the surrounding area is still bare soil. Until vegetative cover establishes, the potential for sedimentation in this area remains. A haybale check dam could also be placed in the earthen swale to slow sedimentation. 3/9-3/23/05
	- Some excavation and backfill is finishing up in several areas throughout the site. 3/23/05	- All stockpiles and excavation areas are well within the site and there are no issues at this time. Appropriate arrangements are being made to begin taking remaining stockpiles to off-site locations 3/23/05
Inland Wetland and Watercourse encroachment and mitigation	- Silt fence has been removed from most areas along the wetland/river side of the channel as the area is stabilized. 12/16/04	-None at this time. Continue to monitor.
State species of concern, threatened and endangered species	- No species of concern are located in this area of construction.	- N/A

Areas of Inspection	Observation	Recommended Action
Vegetative clearing limits (including trees to save or danger trees noted)	-Some plantings along the channel were flagged for damage to see how they survive the winter. 11/18/04	- The plantings will be evaluated for any permanent damage in the spring and hydroseed was placed as ground cover here. 11/18/04
Dewatering	- An existing manhole was being dewatered/pumped out to the traprock along the trailer/access road area. 3/23/05	-None at this time. 3/23/05
Blasting	- No blasting is occurring on site at this time and it is not anticipated to be necessary.	- None at this time.
Spills and Material Storage	<p>- As a result of the small hydraulic oil spill from the NEC, Inc truck last week, the affected, stained spots of stone had been picked up and removed. 3/23/05</p> <p>- A small drip was noticed near the Akerman Excavator during the inspection. The soil was to be picked up and the machine will be looked at. 3/23/05</p>	<p>- The contractors should remain vigilant about securing and handling fuel containers due to the sensitivity of the area.</p> <p>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. -</p> <p>- Check equipment status on a regular basis.</p> <p>- Report spills to the office immediately, even if they are being controlled.</p>
Additional Observations	<p>- The island or bank on which the Broad St bridge footing is located is still mostly bare of vegetation but has some erosion control.</p> <p>- As previously stated, the New Canaan Ave Bridge will now also be under construction by the DOT 3/23/05</p>	- The work is unrelated to the Norwalk substation but should be noted as it is occurring in the adjacent area and could be a potential off-site sedimentation source. 9/10-3/23/05

**Next likely scheduled inspection:**

Wednesday, March 30, 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements

made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:** Diana Walden for Don Ukers

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**Date:** March 23, 2005

**Inspector:** Don Ukers

**Location:** Plumtree Substation Expansion , Bethel

**Storm/**

**Rain Event** The area received approx. 0.31 inches of precipitation, on the day of inspection and no other precipitation since the previous inspection, as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads	- No new access roads have been constructed at this time 3/23/05	- None at this time.
Foundation construction	-The major work of connecting the equipment on the constructed slab to the existing equipment is on-going. All surrounding trench work has been completed and backfilled. 3/23/05  - The surrounding work near the control house has been completed and there are no open excavations. 3/23/05	- The areas are still contained at this time. From the gradient, it does not appear sedimentation beyond the fence will be an issue but small pockets of pooling water will be contained now that the reinforcement of the stone berm has occurred. 3/23/05

Areas of Inspection	Observation	Recommended Action
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- The working areas of the site are mostly muddy. The berm along the eastern perimeter fence was extended further as recommended with additional stone placed on the ends of the previous extension. 3/23/05	- Although the gradient of the site would typically drain water from this area, small isolated spots had pooled but are now contained from running off site. 3/23/05
	- Any melting snow/sediment piles are within the site and the wetlands are protected by the berm. 3/23/05	- Continue to place any future snow piles from the driveway and work areas within the yard or appropriately away from the wetland edge. 3/2-3/23/05
	- There is no silt fence in place at this time, however the stone perimeter berm is well in place and contains the yard. 3/23/05	-All stockpiles are well-contained and the berm is working well at this time. 3/23/05
	- A majority of the soil has been removed to appropriate off-site locations but some will remain on an as needed basis for the remainder of construction. Portions are not covered in plastic but are well within the site. 3/2-3/23/05	-Continue to monitor status and cover stockpiles with plastic if necessary. 3/2-3/23/05
Inland Wetland and Watercourse encroachment and mitigation	- Wetlands are located around the outskirts of the substation yard. The work within the substation yard has caused no observed sedimentation. 3/23/05	- The stone berm around the perimeter of the yard continues to prevent sedimentation and water from leaving the site and getting to the wetland edge. 3/23/05
State species of concern, threatened and endangered species	- No species of concern are located in this area of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	- No vegetation outside of the substation yard will need to be cleared during the expansion work.	- N/A
Dewatering	- Dewatering was not currently active at the time of the inspection. 3/23/05	- None at this time.

Areas of Inspection	Observation	Recommended Action
Blasting	- No blasting is occurring on site at this time.	- None at this time.
Spills and Material Storage	<ul style="list-style-type: none"> <li>- No drips or spills were reported for the week or noted during the inspection. 3/23/05</li> <li>- Many of the stored construction materials that were along the eastern perimeter fence have been cleaned up, creating access to the stone berm. 3/23/05</li> </ul>	<ul style="list-style-type: none"> <li>- The contractors should remain vigilant about securing and handling fuel containers.</li> <li>- Keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. Check equipment status on a regular basis.</li> <li>- Report spills to the office immediately, even if they are being controlled.</li> </ul>
Additional Observations		

**Next likely scheduled inspection:**

Wednesday, March 30, 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:**

Diana Walden for Don Ukers



View of the construction of structures on the new footings, beginning within the expansion area below retaining wall #3. 3/23/05



Siding and structure work continues on the GIS building. 3/23/05





The inlet near the Route 7 ramp continues to receive on site and off site sediment despite the erosion controls in place. A haybale may help filter run-off here. 3/23/05



Plumtree Substation: The area of new stone berm has been expanded along the perimeter fence and now prevents pooling water from leaving the site. 3/23/05





Surrounding trench work has been completed and internal construction continues on the slab. 3/23/05